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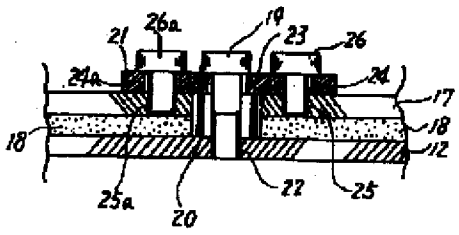
(54) ROTARY ELECTRIC MACHINE

(57) Abstract:

PURPOSE: To change the natural frequency of an entire electric motor by varying the stiffness of a heat exchanger or the wind tunnel for taking in external air for cooling and the mounting part of an electric motor frame.

CONSTITUTION: A heat exchanger 17 is clamped to a frame 12 by utilizing a hard rubber 18, a metal spacer 20 which is adjusted to a length where the hard rubber slightly contracts, and a screw hole 22 which is provided at the frame 12 of an electric motor by a bolt 19 via a fixing device 21 of a heat exchanger 17. Two drill holes 24 and 24a are provided in addition to a drill hole 23 for passing the clamping bolt 19 are provided at the fixing device 21 of the heat exchanger 17 and mounting stiffness adjustment bolts 26 and 26a are clamped to the screw holes 25 and 25a which are provided at the heat exchanger. The stiffness when the heat exchanger 187 is displaced to a lower part changes from a high stiffness due to the deformation of metal to a low stiffness supported by a hard rubber 18, thus avoiding resonance state corresponding to the installation state of a shipped destination and achieving a quiet operation.



ROTARY ELECTRIC MACHINE

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